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_	Application No.	Applicant(s)	-
	09/905,556	WANG, SHEN-GE	
	Examiner	Art Unit	
	James A Thompson	2624	

	09/905,556	WANG, SHEN-GE	
Notice of Allowability	Examiner	Art Unit	
	James A Thompson	2624	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICO of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this or other appropriate communical GHTS. This application is subject	application. If not included tion will be mailed in due co	urse. <b>THIS</b>
1. This communication is responsive to 13 July 2001.			
2. The allowed claim(s) is/are <u>1-18</u> .			
3. $\boxtimes$ The drawings filed on <u>13 July 2001</u> are accepted by the Exa	aminer.		
<ul> <li>4.</li></ul>	been received. been received in Application No uments have been received in the of this communication to file a regent of this application.  Ited. Note the attached EXAMIN is reason(s) why the oath or decl be submitted. Item on's Patent Drawing Review (Pinament / Comment or in the Office of BIOLOGICAL MATERIA	nis national stage application of the backgridge in the front (not the backgridge).  L must be submitted. Not	rements FICE OF
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li></ul>	6. ⊠ Interview Summa Paper No./Mail 3), 7. ⊠ Examiner's Ame	Date <u>9 <i>March 2005</i></u> .	·

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## DETAILED ACTION

## EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Jennette Walder on 09 March 2005.

The application has been amended as follows:

- a. In claim 4, lines 1-2, modify "non-orthogonal includes cell shapes" to "non-orthogonal halftone cells include cell shapes".
- b. In claim 11, lines 1-2, modify "non-orthogonal includes cell shapes" to "non-orthogonal halftone cells include cell shapes".
- c. In claim 16, lines 1-2, modify "non-orthogonal includes cell shapes" to "non-orthogonal halftone cells include cell shapes".

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## Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

Using halftone cells that are non-orthogonal; further limiting the equations governing the frequency vectors of each of the colors of the non-orthogonal halftone cells with the set of vector equations listed in independent claims 1, 8 and 15; and specifically defining the minimum acceptable two-color Moiré frequency with the inequality specifically listed in claims 1, 8 and 15 has not been found by Examiner in the prior art. Furthermore, Examiner has not found prior art that would render each and every limitation of independent claims 1, 8 and 15 obvious to one of ordinary skill in the art.

The closest prior art of record that was found by Examiner is listed below:

- Thomas M. Holladay, US Patent 4,185,304, 22 January 1980. In this patent, Holladay discloses color halftoning at non-orthogonal angles. However, the halftone frequency vectors do not have the specific relation defined by the frequency vector equations, or an equivalent, recited in claims 1, 8 and 15 of the present invention. Additionally, the minimum acceptable two-color Moiré frequency is not determined with the inequality specifically recited in claims 1, 8 and 15. Further, the halftone cells themselves are orthogonal.
- Richard L. Rylander, US Patent 5,323,245, 21 June
   1994. In this patent, Rylander discloses nonorthogonal halftone cells and color halftoning at non-

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orthogonal angles. However, the halftone frequency vectors do not have the specific relation defined by the frequency vector equations, or an equivalent, recited in claims 1, 8 and 15 of the present invention. Additionally, the minimum acceptable two-color Moiré frequency is not determined with the inequality specifically recited in claims 1, 8 and 15.

• Mitsuru Sawano, US Patent 5,883,725, 16 March 1999. In this patent, Sawano teaches non-orthogonal halftone screens and the manipulation of the individual halftone dots, and thus the halftone cell, in order to reduce Moiré and other artifacts. However, the halftone frequency vectors do not have the specific relation defined by the frequency vector equations, or an equivalent, recited in claims 1, 8 and 15 of the present invention. Additionally, the minimum acceptable two-color Moiré frequency is not determined with the inequality specifically recited in claims 1, 8 and 15. Further, the halftone cells themselves are orthogonal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A Thompson whose telephone number is 703-305-6329. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K Moore can be reached on 703-308-7452. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James A. Thompson Examiner

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JAT 09 March 2005

THOMAS D.

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